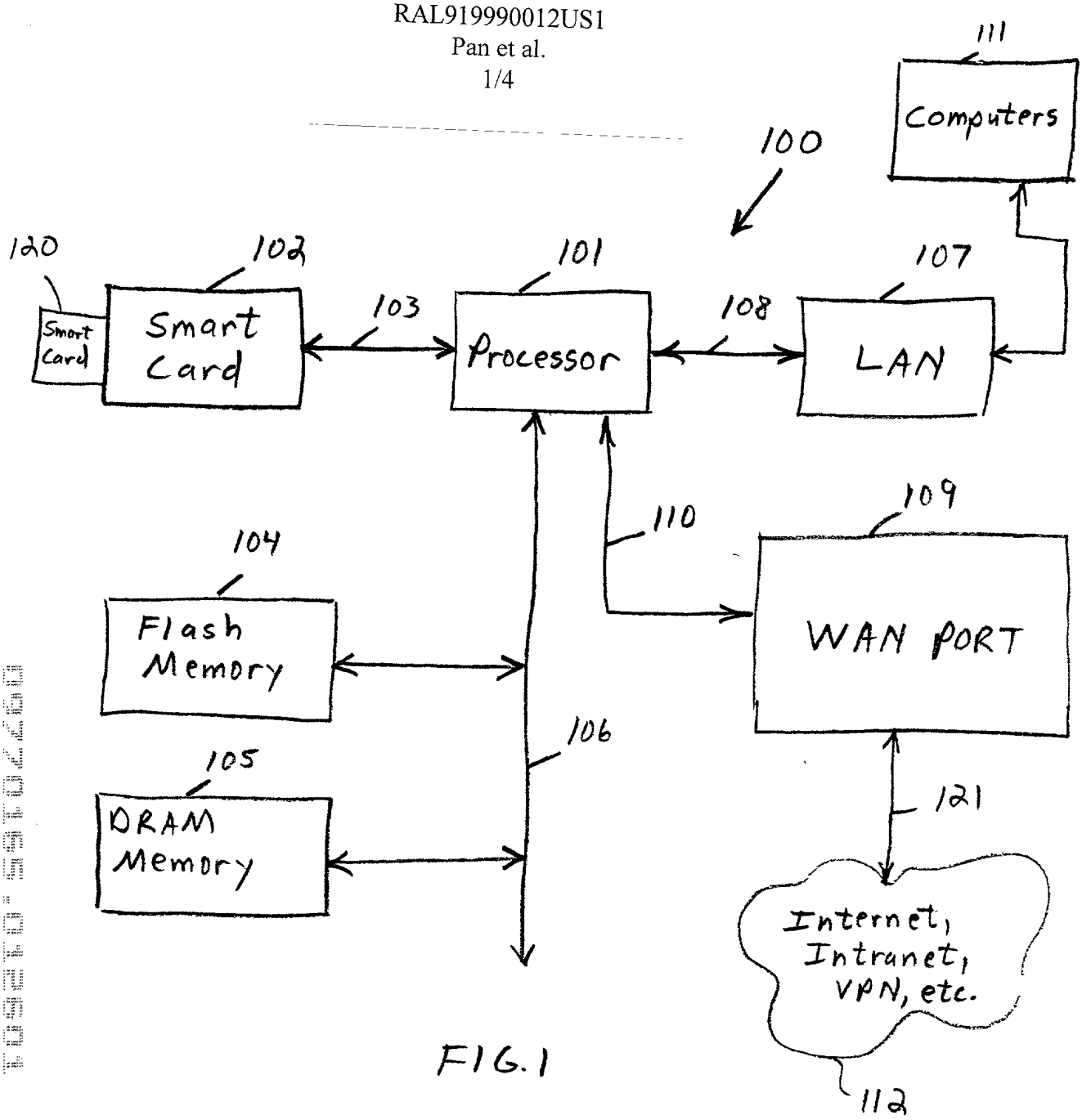
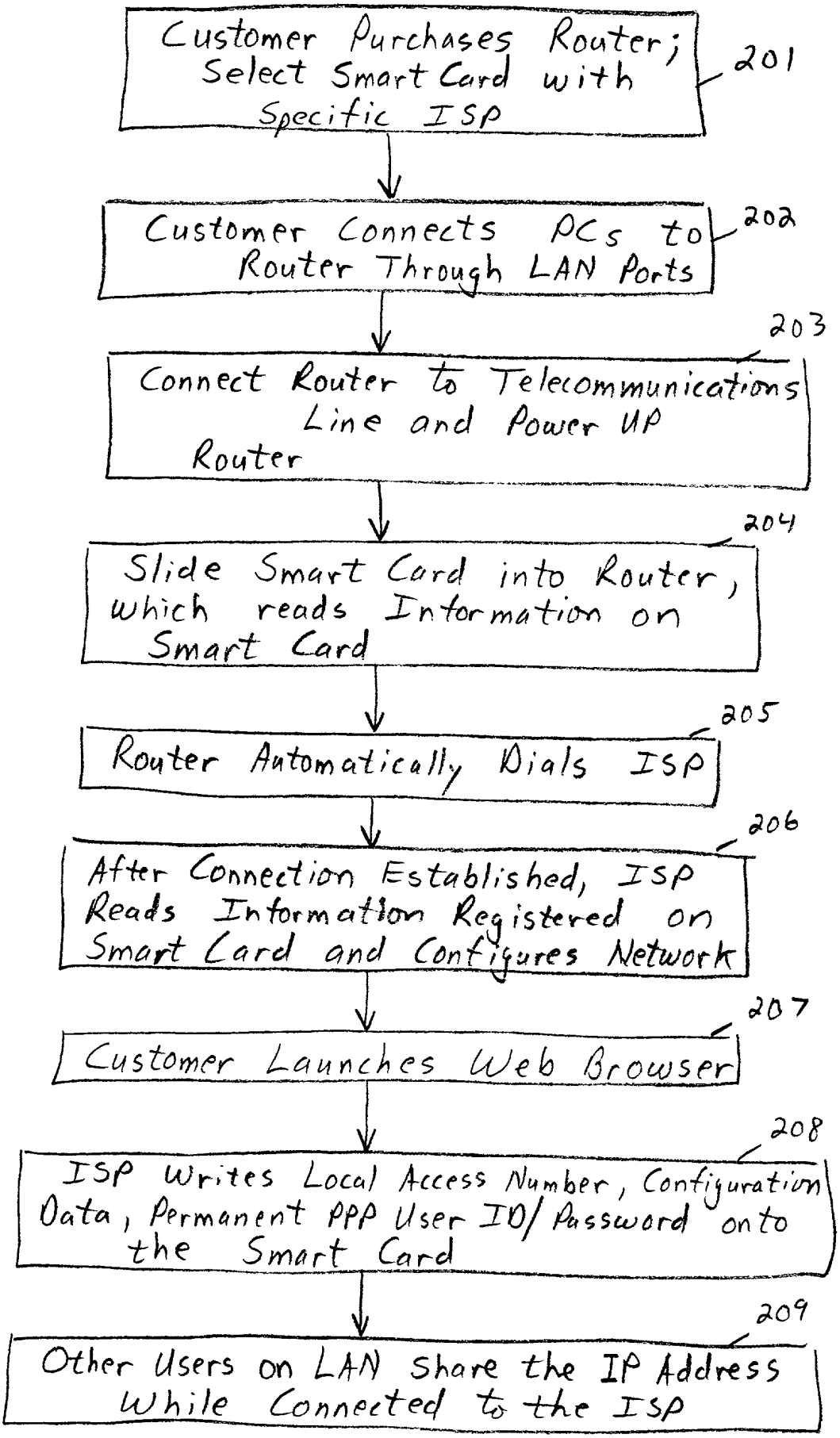

111
Computers
100
120
102
101
107
Smart Card
Smart Card
103
Processor
108
LAN
110
109
104
Flash Memory
WAN PORT
106
105
DRAM Memory
121
Internet, Intranet, VPN, etc.
112

FIG. 1

FIG. 2


Customer Purchases Router; Select Smart Card with Specific ISP
201
Customer Connects PCs to Router Through LAN Ports
202
Connect Router to Telecommunications Line and Power UP Router
203
Slide Smart Card into Router, which reads Information on Smart Card
204
Router Automatically Dials ISP
205
After Connection Established, ISP Reads Information Registered on Smart Card and Configures Network
206
Customer Launches Web Browser
207
ISP Writes Local Access Number, Configuration Data, Permanent PPP User ID/ Password onto the Smart Card
208
Other Users on LAN Share the IP Address While Connected to the ISP
209

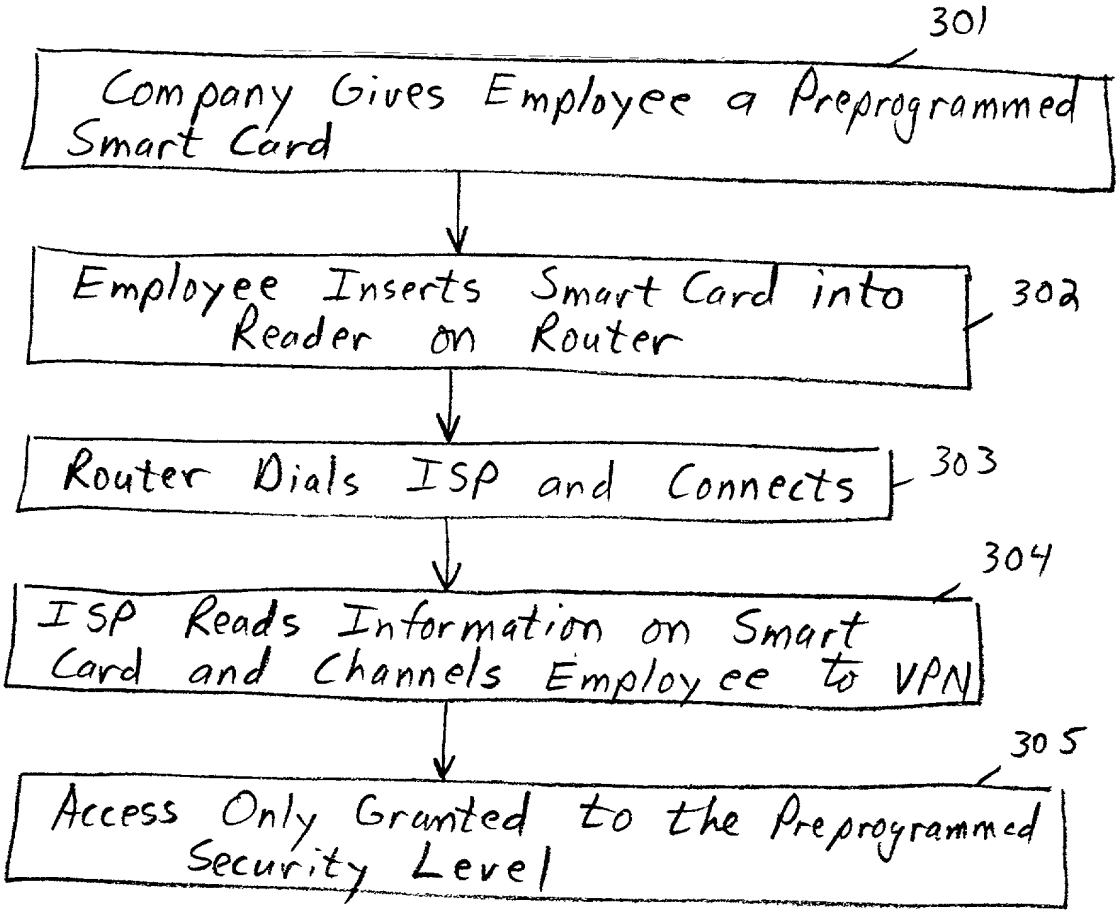

301
Company Gives Employee a Preprogrammed Smart Card
Employee Inserts Smart Card into Reader on Router
302
Router Dials ISP and Connects
303
304
ISP Reads Information on Smart Card and Channels Employee to VPN
305
Access Only Granted to the Preprogrammed Security Level

FIG. 3

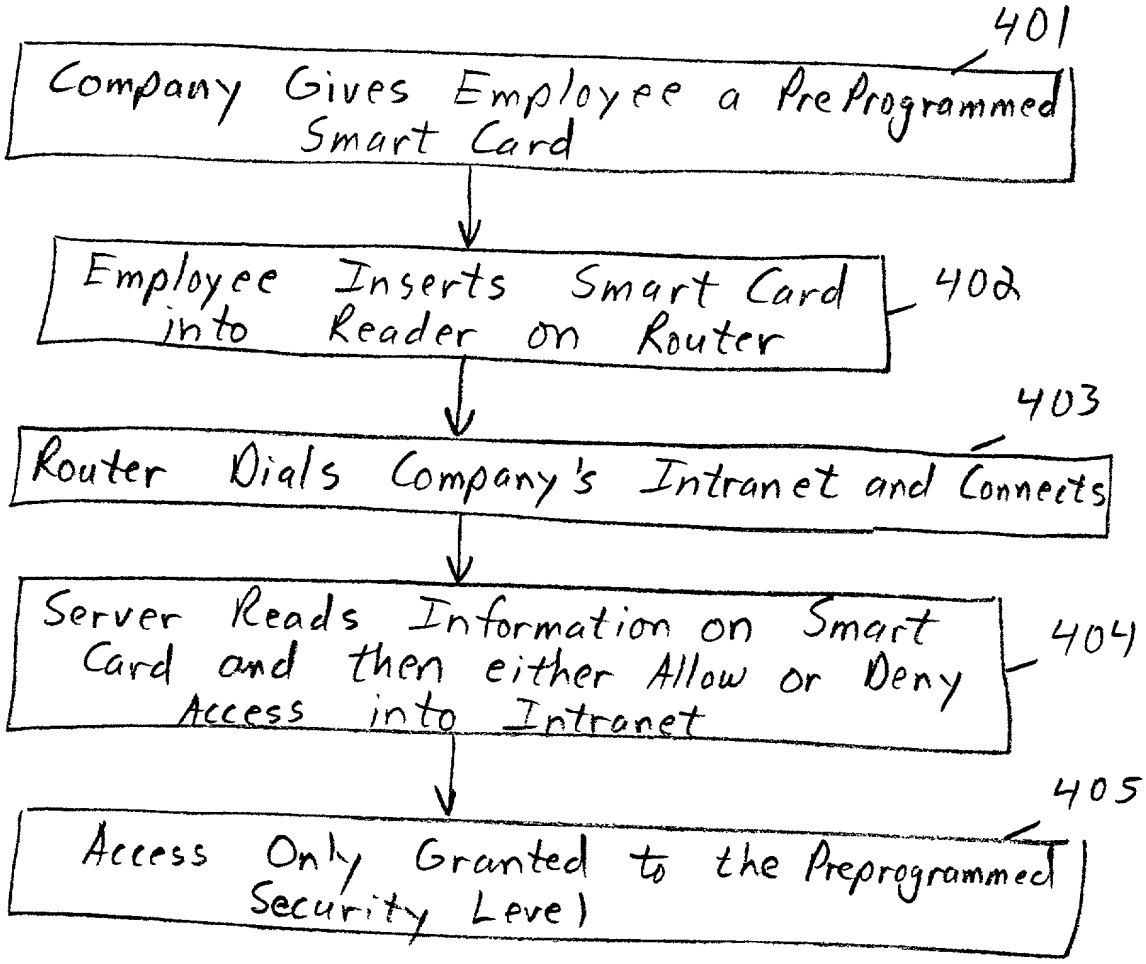

401
Company Gives Employee a PreProgrammed Smart Card
Employee Inserts Smart Card into Reader on Router
402
403
Router Dials Company's Intranet and Connects
Server Reads Information on Smart Card and then either Allow or Deny Access into Intranet
404
405
Access Only Granted to the Preprogrammed Security Level

FIG.4